

Comparisons of Job Characteristics

Focus Occupation: [Electro-Mechanical Technicians \(17-3024\)](#)

Associated Occupation: [Electrical and Electronics Repairers, Commercial and Industrial Equipment \(49-2094\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	17.5	16.1	0 Current knowledge level may be sufficient
Mechanical	6.8	16.4	15.6	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	11.7	14.2	> Current knowledge level is likely sufficient
Design	5.2	9.6	7.8	< Expanded education and/or training may be required
Telecommunications	3.9	6.9	3.0	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Quality Control Analysis	5.9	13.3	12.9	0 Current skill level may be sufficient
Repairing	3.4	13.3	12.3	0 Current skill level may be sufficient
Operation Monitoring	6.6	12.6	13.9	> Skill level is likely sufficient
Troubleshooting	4.5	12.0	12.8	0 Current skill level may be sufficient
Equipment Maintenance	3.5	11.1	10.8	0 Current skill level may be sufficient
Equipment Selection	3.3	10.5	9.2	< A higher skill level may be required
Installation	1.7	9.3	10.2	0 Current skill level may be sufficient
Technology Design	2.6	6.3	2.4	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 87			
Focus Occupation: Electro-Mechanical Technicians (17-3024)					
Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Finger Dexterity	7.6	12.9	12.5	0	Current ability level may be sufficient
Category Flexibility	9.0	11.9	9.2	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	11.2	11.6	0	Current ability level may be sufficient
Flexibility of Closure	7.8	11.0	10.2	0	Current ability level may be sufficient
Perceptual Speed	7.4	10.7	11.2	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	10.6	10.6	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	9.3	9.8	0	Current ability level may be sufficient
Speed of Closure	5.9	8.8	8.0	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 83
Focus Occupation: Electro-Mechanical Technicians (17-3024) Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)		
Work Activities	Exclusivity of Activity	
Analyze technical data, designs, or preliminary specifications	47	
Communicate technical information	4	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electronic equipment, components, or systems	62	
Install/connect electrical equipment to power circuit	57	
Modify electrical or electronic equipment or products	74	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Solder electrical or electronic connections or components	55	
Understand service or repair manuals	40	
Understand technical operating, service or repair manuals	6	
Use electrical or electronic test devices or equipment	40	
Use hand or power tools	2	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 83

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Tools and Technologies	Exclusivity
Business function specific software	1
Chemical evaluation instruments and supplies	10
Computer data input devices	2
Computer printers	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Electronic and communication measuring and testing instruments	14
Finance accounting and enterprise resource planning ERP software	2
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Integrated circuits	18
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Machine tools	7
Measuring and layout tools	3
Metal bending and forming machinery	17
Power tools	2
Prying and bending tools	10
Soldering and brazing and welding machinery and supplies	6
Temperature and heat measuring instruments	6
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.